Voltaire Grid Director 4036 QDR InfiniBand Switch

Read This First: Documentation Roadmap

This HP document roadmap describes how to access the documentation providing information about the Voltaire Grid Director 4036 QDR InfiniBand switch with the rear-to-front cooling option used in High Performance Computing solutions.

This guide supports the following HP part number:

HP Part Number	Description
619672-B21	Voltaire IB 4X QDR 36P RAF (Reverse Air Flow) Managed Switch

Part number: **HV-4036R-1A**

Edition: September 2010

This document provides links to the Voltaire data sheets and user information describing the Voltaire Grid Director 4036 QDR InfiniBand switch. You can link directly to any of the documentation here to provide you with more information about your product.

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HP High Performance Computing InfiniBand Solutions

An integral component of an HP InfiniBand solution is the InfiniBand switch. The InfiniBand switch might have leaf boards, power supply units, fan modules, management modules, and other field swappable devices to use, manage, and service the switch.

The HP InfiniBand network also includes the HCAs (host channel adapters). The HCAs have two form factors: one with standard PCI form factor for HP ProLiant DL and SL servers, and another with the mezzanine form factor for HP ProLiant BL server blades. The components that contain PCI or HCA cards are visible and manageable parts of your HP InfiniBand network. An HP InfiniBand HCA can be a single-port or dual-port PCI card or HP BladeSystem InfiniBand mezzanine HCA.

This document contains links to the documentation that describe the Voltaire Grid Director 4036 QDR InfiniBand switch with the rear-to-front cooling option.

All of the documentation referenced in this document is currently available on the Voltaire website.

If you have any comments about this document, please send them to:

http://www.hp.com/bizsupport/feedback/ww/webfeedback.html

For technical support and updates, contact your HP representative.

Voltaire Grid Director 4036 QDR InfiniBand Switch

The Voltaire ISR 4036 documentation describes how to install and maintain the Voltaire Grid Director 4036 QDR InfiniBand switch **with the rear-to-front cooling option (reverse air flow)**.

Features of the Voltaire Grid Director 4036 switch include:

- 19” rack mountable chassis, 1U high
- Low latency, hardware-based bridging between InfiniBand and Ethernet
- Provides high performance connectivity to Ethernet-based services and resources
- 34 QDR (40 Gb/s) ports and two 1/10 GbE ports in a 1U switch
- Ultra-low latency with less than 100 nanoseconds between InfiniBand ports and less than two microseconds between InfiniBand and Ethernet
- Embedded subnet manager

Documentation/Specifications	Link
Voltaire Grid Director 4036 Data Sheet	Data Sheet
Voltaire Grid Director 4036 QDR InfiniBand Switch	User Manual

Switch Management Software

The following table provides a link to the recommended switch management software for the Voltaire Grid Director 4036 QDR InfiniBand switch used in High Performance Computing

HP Part Number	Download Link
619672-B21	Software

NOTE: For technical support and updates, contact your HP representative.

HP High Performance Computing Information

The following websites provide more information on High Performance Computing solutions:

Link/Description
HP BladeSystem Adapters and Mezzanines This site provides information on the full range of BladeSystem adapters and mezzanines available from HP for BladeSystem configurations.
Voltaire website Check the Voltaire website for updates between releases of this document.
Mellanox website Describes the various HP and Mellanox host channel adapter cards, providing specifications, required firmware and software for operating the cards, interfaces of the cards, and other related information.

Contact your HP representative if you need additional information.

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